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lets having been added to the entries made last year. The catalogues of the books on helminthology, ichthyology, and herpetology have also been finished, leaving only those on anthropology and mineralogy to be yet entered. In addition to the books catalogued, there are in the library a large number of literary, artistic, and historical works to which I have before called attention for the purpose of recommending that they be sold, and the funds applied to the purchase of books more specially useful to the society. In the hope that this disposition may be made of these works, it is not the intention at present to extend the card entries to these departments, so that the catalogue will probably be completed early next year.

Constant effort has been made to complete, as far as possible, the sets of periodicals in the library, and to add those not yet in the possession of the Academy. This work will be materially forwarded by the issue of Mr. Scudder's invaluable Catalogue of Scientific Serials, which furnishes a means not before at hand of determining our deficiencies.

For the amounts expended on the purchase of books reference is made to the report of the Treasurer. The accompanying list of additions made during the year indicates, as heretofore, that for the most valuable items, apart from our exchanges, we are dependent upon the I. V. Williamson Fund.

All of which is respectfully submitted,

EDW. J. NOLAN,

Librarian.

REPORT OF THE CURATORS.

The Curators report that during the year all the various collections of the Museum have been carefully inspected and cared for, and that they are all in good condition. A violent storm, which caused considerable destruction of glass and flooding of rain, wetted some parts of the collections, but the objects were speedily dried, so that little serious damage resulted, except the loss of several specimens of echinoderms. Mr. J. A. Ryder has been continuously engaged in identifying, arranging, and labeling the collection of fishes. There have been identified upwards of 700 species of 325 genera. The Bonaparte collection of fishes, considering the time it has been preserved, is in excellent condition.

Mr. Spencer Trotter has also been engaged in the arrangement of the birds.

The collection of vertebrate fossils from the New Jersey cretaceous and tertiary marls, which are very liable to decomposition from exposure to the air, have been treated so as to preserve them, and they have been arranged and labeled.

Most of the specimens received during the year have been placed in their proper positions in the various collections.

The most important addition to the Museum during the year, consists of the Archæological collection belonging to the American Philosophical Society, deposited with the Academy by resolution of Nov. 16, 1877. The collection mainly consists of the Poinsett collection of Mexican antiquities and many Peruvian and other American antiquities. The Academy is indebted to Mr. William S. Vaux, for defraying the expense of adapting one of the entresol rooms to the proper exhibition of the collection.

The contributions in the various departments during the year, excepting those reported on by some of the special sections, are as follow:—

Mammals.—Five skeletons: *Tapirus indicus*, *Auchenia*, *Dicotyles*, *Sus*, and *Phascalomys*, presented by Dr. H. C. Chapman. Seal caught off Marcus Hook, Levi Cromwell. Skeleton of a native of the Chatham Islands, W. H. Rau. Young Chimpanzee, Phila. Zool. Society. Red Fox, Harford Co., Md., I. C. Martindale. Monstrous new-born Sheep, W. H. Faulkener.

Birds.—Twenty-five species birds' nests with eggs, presented by John Pearsall. *Ardea herodias*, Florida, J. W. Millner and Jos. Willcox. *Tachypetes. aquilus*, Jos. Willcox. Skeleton of Flamingo, Dr. H. C. Chapman. Nest and eggs of *Junco hyemalis*, mountains of North Carolina, W. N. Canby. *Perdix saxatilis* and *Ardea cornuta*, Syria, Prof. Janowsky. Ostrich egg, Dr. Geo. H. Horn. *Gallus domesticus*, Jos. O. Schimmel. *Dacelo gigantea*, *Turtur bitorquatus*, *Psittacus erythraeus*, *Chrysotis ocreocephala*, *Platycercus hæmatonotus*, *P. eximeus*, *P. pennanti*, *P. semitorquatus*, *Munia undulata*, *Amadina bicolor*, *Donacola castaneo thorax*, Phila. Zool. Society.

Reptiles, Amphibians, and Fishes.—A collection of lizards and snakes, presented by Dr. H. C. Chapman. *Phrynosoma regale*, California, Dr. Jos. K. Corson. Twin *Testudo clausa*, S S Halde-
man. *Amphiuma means*, *Gymnotus electricus*, Phila. Zool. So-

ciety. *Orthogoriscus mola*, Atlantic City, N. J., J. L. Howard. *Lophius americanus*, Atlantic City, N. J., S. D. Button. Embryo of Ray, Dr. H. C. Evarts.

Articulates.—*Artemia fertilis*, *Limnadia compleximanus*, *Streptocephalus watsoni*, and *Branchinectes coloradensis*, presented by Dr. A. S. Packard. *Streptocephalus sealii*, Woodbury, N. J., W. P. Seal. *Chirocephalus holmani*, Woodbury, N. J., Messrs. Seal and Holman. *Palinurus vulgaris*, Medt., John Ford. *Eubbranchipus vernalis*, Long Island, F. Gissler. Two crustacean parasites and two worms, from *Orthogoriscus*, J. L. Howard. *Polyxenes fasciculatus*, Fairmount, J. A. Ryder. *Mygale hentzii*, *Buthus*, *Mantis*, *Cryptoglossa verrucosa*, *Eleodes armata*, *Scolopendra*, Ft. Yuma, Cal., Dr. Joseph K. Corson, U. S. A. *Lucanus elephas*, Swedesboro, N. J., Richard French. *Platylepas decorata*, Hernando Co., Fla., Jos. Willcox. Nests of the Honey Ant, *Myrmecocystis*, Colorado, Rev. H. C. McCook. Three insects mounted in soluble glass, and cocoons and raw silk of the silk-worm, Dr. S. Chamberlain.

Radiates and Protozoans.—A small collection from Mt. Desert, Me., presented by Dr. H. C. Chapman. *Sertularia argentea*, Boring-sponge in the shell of the oyster; *Pterogorgia setosa*, W. I., and *Doricidaris papillata*, Medt., John Ford. *Penella pilosa*, with attached *Conchoderma*, J. L. Howard. *Spongilla lacustris* and *Pectinatella magnifica*, Woodbury, N. J., W. P. Seal. *Cristatella idae*, Fairmount, Dr. Jos. Leidy.

Fossils.—Fossil fishes, and bones of *Uintatherium*, *Palæosyops*, and Crocodile, Green R., Wyoming, presented by Dr. H. C. Chapman. Fragments of jaws with molars of *Rangifer caribou*, from the loess of Muscatine, Iowa, Prof. F. M. Witter. Foot-prints of *Anthracopus ellangowensis*, Ellangowan Colliery, Mahanoy, Pa., W. D. H. Mason, through W. Lorenz. Bones of Gavial, miocene, N. J., and two coal fossils, *Lepidostrobis*, Carbondale, Pa., Dr. Jos. Leidy. Tooth of *Carcharodon megalodon*, picked up on the shore of Atlantic City, N. J., E. Lippincott. Fragment of bone, Vincenttown marl, N. J., Col. T. M. Bryan. Trilobite, T. A. Conrad. *Maclurea*, carboniferous limestone, Upton, Franklin Co., Pa., Annie Ryder. Casts of skull and jaw of *Acotherulum saturninum*, Phosphate beds of Jersey, Prof. Paul Gervais. Ramus of lower jaw and portion of tibia of *Mastodon andium*, S. A., deposited by Dr. I. C. Coates. Tooth of *Mosasaurus*, Chalk of

Meudon, France, *Leucociscus papyraceous*, *Protomyia macrocephala*, and *Micropsalis papyracea*, miocene of Rott, near Bonn, purchased.

Ethnological and Miscellaneous.—Necklace with ornament, two carved gourd vessels, bows and arrows, blow-gun, spears, from Costa Rica and California, collected by the late Wm. M. Gabb, together with a portrait of the latter, presented by Mrs. C. G. Gabb. Fire-stick of Digger Indians, Sacramento R., Cal., W. C. Desmond. Indian stone-pipe, Bedford Co., Pa., E. Draper. Cloth made from Yucca fibre, Mexico, Dr. C. C. Parry. Fragments of steatite vessels from an ancient steatite quarry, Rock Creek, near Washington, D. C., W. J. Rhees. Stone mortar, East Tennessee, A. D. Trimble. Stone implement, Hernando Co., Fla., Jos. Willcox. Copper bracelet, Thebes, C. F. Parker. Stone carving, Cave Temple of Elephanta, and sandals of the Arabs of Muscat, Dr. Ruschenberger. Five stone axes, Pa.; three ditto, N. J.; one ditto, with terra-cotta pot and bowl from a mound, New Madrid, Mo.; stone scrapers and chips, Wyoming Ty., in exchange, from Dr. Leidy.

Respectfully submitted by the Curators,
JOSEPH LEIDY, *Chairman*.

REPORT OF BIOLOGICAL AND MICROSCOPICAL SECTION.

During the past year there were held seventeen meetings with an average attendance of 60 persons.

There were two exhibitions given to the public, at the first of which there were exhibited 137 instruments, and at the second 179.

Lectures were delivered by members at each meeting, and a special course by Dr. J. Gibbons Hunt continued through the entire year.

The officers elected for 1880 are—

<i>Director</i>	.	.	.	.	Dr. Carl Seiler,
<i>Vice-Director</i>	.	.	.	.	Dr. C. Newlin Pierce,
<i>Corresponding Secretary</i>	.	.	.	.	Dr. Charles Shaffer,
<i>Treasurer</i>	.	.	.	.	Dr. Isaac Norris,
<i>Recorder</i>	.	.	.	.	Dr. Robert Hess,